Abstract

Method and Allocation Device for Allocating Pending Requests for Data Packet Transmission at a Number of Inputs to a Number of Outputs of a Packet Switching Device in Successive Time Slots

The present invention is related to a method for allocating pending requests for data packet transmission at a number of inputs to a number of outputs of a switching system in successive time slots, wherein according to a matching method the allocation of the pending requests is optimized, wherein the matching method includes a number of steps for incrementally allocating the requests, wherein as a result of each step a matching information is provided, wherein in each time slot a request information is provided, the request information indicating the data packets at the inputs requesting transmission to respective outputs, the matching method comprising the steps of providing a first request information in a first time slot, performing a first step in the first time slot depending on the first request information to obtain a first matching information; providing a last request information in a last time slot successive the first time slot; performing a last step in the last time slot depending on the last request information and depending on the first matching information to obtain a final matching information; and assigning the pending data packets at the number of inputs to the number of outputs in dependence on the final matching information.